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International Federation for Information Processing

TENTH ANNIVERSARY ISSUE

Editor:
Dr. Jack L. Rosenfeld

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HAMBURG - AN IDEAL SITE FOR IFIP CONGRESS '94

The IFIP General Assembly (GA) received reports in September from the International Program Committee and Organizing Committee of **IFIP** Congress '94, to be held in Hamburg 28 August to 2 September 1994. One aspect stressed was the appealing locale. We include in this article some information about Hamburg.

Hamburg is not only a business and trade center, port, and university city — it is also a tourist's delight. With 1.7 million inhabitants, it is the second-largest city in Germany, after Berlin. Hamburg is Germany's greenest city, full of parks, woods, canals, rivers, and the Alster — a 182-hectare (450-acre) lake in the heart of the city and a popular place for sailors, windsurfers, joggers, and strollers.

The Alster is a very short walk from the Congress Center (CCH), where the majority of Congress '94 events will take place. (A few will be held at the adjacent University of Hamburg.) The CCH, in the center of Hamburg, is one of the world's largest and most modern convention venues. The beautiful old Botanic Garden is just adjacent.

The weather in Hamburg at the end of August is usually quite good: 17°C (63°F) average temperature, some wind, some sunshine, and some showers.

Tourist and Cultural Attractions

Hamburg is a vibrant city, where water is never far away. With the Port, Alster, and numerous canals, Hamburg has more bridges than Venice and Amsterdam, combined. Inseparably linked to the Port and the city itself is St. Pauli, Hamburg's "sinful mile." Nowadays, one can find musicals, cabaret, satire, variety, and comedy performed there. Undoubtedly, one of the district's biggest attraction is the traditional Fish Market, which takes place around the restored Fish Auction Hall 5-10 a.m. every Sunday.

In addition to the renowned Hamburgische Staatsoper (the oldest opera in the world founded by ordinary citizens), Deutsches Schauspielhaus, and Thalia Theater, Hamburg has more than 40 private theatres and several concert halls, open-air venues, and musical theatres. With some 50 state-owned and private museums, the city has many interesting collections. When it comes to shopping, Hamburg can offer its visitors extraordinary attractions, from exclusive shopping boulevards to glass-roofed shopping arcades.

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GREETINGS

At this time of holidays and the new year, we send greetings to all our **IFIP** friends and wish all of you joyful holidays and a year of health, happiness, and peace.

GENERAL ASSEMBLY MAKES MAJOR DECISIONS IN TOKYO

Secretary General, Publications Plan, Congress '98 Site, and Auerbach Award

The IFIP General Assembly (GA) met 6-9 September (including committee and Technical Assembly meetings) in Tokyo and dealt with several difficult, far-reaching issues. The GA established the position of **IFIP** Secretary General (an article about this matter is on page 2). At the same time, it was announced that *Mme. Gwyneth Roberts,* Administrative Manager of the **IFIP** Secretariat, will reach retirement age and retire in February 1995. Another major issue was the plan for **IFIP** publications (article on page 6), which is still unsettled. The GA voted to hold **IFIP** Congress '98 in Vienna and Budapest. It also established the *Isaac Auerbach* Award (page 2). New Member societies were admitted. Difficult decisions were made regarding **IFIP** finances.

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IFIP NEWSLETTER

Editor:
Dr. Jack L. Rosenfeld
IBM Journal of Research and Development
T.J. Watson Research Center
P.O. Box 218
Yorktown Heights, NY 10598-0218
U.S.A.
telephone: 1 (914) 241-4170
facsimile: 1 (914) 241-4204
Internet: rosenj@watson.ibm.com
Bitnet: rosenj @ yktvmh

Published quarterly by
IFIP Secretariat
16 Place Longemalle
CH-1204 Geneva, Switzerland
telephone: 41 (22) 310 26 49
facsimile: 41 (22) 781 23 22

(following effective 1 January 1994)
Internet: ifip@uni2a.unige.ch

CORRESPONDENTS
TC2 R.K. DeBry
TC3 B. Samways
TC6 D. Khakhar
TC7 P. Kall
TC8 B. Glasson
TC9 F. van Rijn
TC10 R.N. Ibbett

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The Secretariat can also answer inquiries about IFIP.

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Kindly submit material for the ***Newsletter*** three months before the publication date.

Please send the following IFIP information directly to the Secretariat: announcements of conferences, workshops, and other meetings; calls for papers; appointments to committees and other positions; and changes of address. The Secretariat is the clearinghouse for all such information; it will forward it to the ***Newsletter.***

IFIP COUNCIL

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D. Dolan	IRL	91-94
G.R. Fairall	ZW	91-94
D. Khakhar	S	93-96
W. Brauer	D	92-95
W. Grafendorfer	A	93-95

IFIP AWARDS

Isaac L. Auerbach Award Instituted

The IFIP General Assembly (GA), meeting in Tokyo in September, approved the creation of a prestigious award in the name of its founder, *Isaac L. Auerbach (USA). (An* obituary of *Mr. Auerbach* is on page 3 of the March 1993 ***IFIP*** *Newsletter.)* This award will be presented every other year, at the opening sessions of **IFIP** Congresses, beginning in 1994. The award is to be given to those individuals whose service in support of **IFIP** in its mission is deemed by their peers to be extraordinary.

The president of each **IFIP** Full Member society is invited to submit a nomination for the first award, to the **IFIP** president, by 15 February 1994. The candidate must be a member of the nominating society. The nomination, not to exceed 5 pages, should specify how the nominee's efforts have furthered the fulfillment of **IFIP's** mission in the international community. The nominations will be kept confidential. The selection will be made by the **IFIP** Executive Board.

Each award recipient will be provided a grant to cover the cost of travel to the site of the Congress and will be presented with a medal and an honorarium. Presentation of the first award will be made on 29 August 1994 in Hamburg at **IFIP** Congress '94 by *Mrs. Carol Auerbach, Mr. Auerbach's* widow.

The GA also voted to grant the following individuals the **IFIP** Outstanding Service Award, for services rendered to **IFIP** by Technical Committee and Working Group members:

Dr. I. Stanchev (BG) (TC3)
Prof. C. Beardon (GB) (TC9)
Ms. P. Michel (D) (WG10.5)
Mr. J. Beatson (NZ) (TC 11)
Prof. H. Highland (USA) (TC11)

Congratulations and thanks to them for their work in behalf of **IFIP!**

Criteria for the Silver Core, the other **IFIP** internal award, were strengthened by the Executive Board in September. Attendance at a larger number of meetings is now required. Also, the recommendation of certain officers is necessary. ■

NEW IFIP POSITION: SECRETARY GENERAL

The IFIP Executive Board surprised the Council and General Assembly (GA) at their meetings in Tokyo in September by proposing the creation of a new position — Secretary General — "with the responsibility of implementing, on a continuous basis, the decisions taken by the GA, Executive Board, and Standing Committees. This position will not replace the Administrative Secretariat or the Administrative Manager, but will be an extension of **IFIP** Management." After expressing displeasure at the suddenness of the proposal (neither Council nor GA had been informed in advance), both Council and GA supported it. During discussion in the GA, it was concluded that the position would have these three major roles:

- to promote **IFIP** and enhance its image outside the Federation
- to direct the **IFIP** Secretariat, study its operations, and propose and implement economies
- to facilitate the execution of decisions taken by the major **IFIP** bodies

The first role will involve interactions with external organizations (e.g., UNESCO) and Member societies, to market **IFIP** effectively. This activity will also include the solicitation of funds.

The second role, directing the Secretariat, will include studying the feasibility of relocating the Secretariat to less costly facilities elsewhere in Geneva, or even in another country. A task force consisting of *Mr. Jacques Fourot (F),* then the **IFIP** secretary, and *Mr. Aage Melbye (DK),* the **IFIP** treasurer, had prepared a report for the Executive Board on potential changes in the Secretariat. Some 400 000 Swiss francs are now budgeted for the Secretariat (2/3 of all **IFIP** expenses). Half of that is associated with the 25 000 mailings performed annually, and with other communication. It is believed that significant savings, at least 15% of the Secretariat budget, can be achieved in this area and others, which might very well pay for the new costs of the Secretary General position. Other Secretariat functions could be enhanced: e.g., valuable additions in capability to the address database, automatic production of reports now produced by **IFIP** officers, increased

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TELECOMMUNICATIONS AND I.T. IN EDUCATION

*by Mr. Jan Wibe (N)**

TeleTeaching 93, the third in a series of **IFIP** conferences on distance learning, was held in Trondheim, Norway, August 20-25, 1993. The Norwegian Computer Society was organizer on behalf of the **IFIP** Technical Committee on Education (TC3). The objective of the conference was to demonstrate how telecommunication and information technology are used in education, distance education, and distance working, and to highlight the social consequences this has on society.

Because of the long distances and scattered population in Norway, distance education and teleteaching are very important and given high priority. Challenges facing the communication sector include bringing television to the Arctic and expanding communications in areas populated by the Sami (Laplander) minority and in communities situated along the rugged and deep fjords. The headquarters of the International Council for Distance Education are located in Oslo.

The conference programme consisted of nearly 200 contributions, with keynote and invited speakers, paper and poster sessions, workshops, projects, and demonstrations. The wide variety of contributions gave a very good presentation of the use of technology on a world-wide scale. TeleTeaching 93 was not, however, a conference for technology experts; most presentations and participants came from the user side.

The Participants

The 500 participants came from 42 different countries. All inhabited continents were represented, though very few came from Africa and South America. Most participants came from Norway, of course, but the U.K., the U.S.A., Canada, and Australia were also very well represented. These countries are also in the forefront of using technology in education and distance education. Although many contributions from Russia were accepted for presentation at the conference, not a single participant arrived in Trondheim — because of financial problems. Funding for attending the conference seemed to be a problem all over the world.

Remote Keynote Speech

The keynote speech in the opening session was delivered by *Prof. Jaques Perriault (F).* Only two days before the conference started, we received a message from him saying that he could not come because of health problems. Nevertheless, he offered to present his speech on two-way TV from France. Because of satellite problems, we didn't know until the last minute whether the connection could be established. We succeeded, however, and *Perriault* made his presentation and could answer questions from the auditorium. From our point of view, this was a very good start to the conference, showing in practice the use of telecommunications in education.

In the closing session, we had a genuine diagnosis by a medical expert in Trondheim of a heart patient 2000 km away, in northern Norway, demonstrating, in addition, how an expert can educate doctors in remote areas, using two-way TV.

The Contributions

Many of the contributions showed how data communication is in widespread use in education all over the world. Electronic mail is frequently used in international projects between schools, and electronic conferences and e-mail seem to be in widespread use at all levels of education and for varied purposes. International projects on the theme "The' local and global environment, our common concern" seem to be very popular and give hope for the future.

Within distance education, the majority of the presentations came from the **university** level, **but** a substantial number were from secondary schools. They showed that schools can deliver education to adults in need of competence in many different areas. The services used were mainly data communication, TV, and two-way TV.

Further Activity

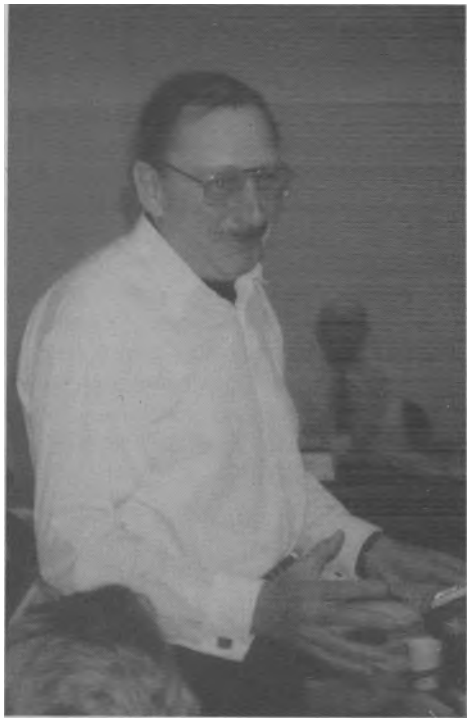
We received many questions about the next TeleTeaching conference. **IFIP's** Working Group on Distance Learning (WG3.6) has future responsibility. The next major event of **IFIP's** TC3 will be a world conference in Birmingham, U.K., in 1995. We expect to have many presentations on teleteaching at that conference.

The conference was very well documented by a 1000-page volume of proceedings published by Elsevier/North-Holland. *Gordon Davies (GB)* was Managing Editor and *Brian Sam ways (GB)* Co-editor. The abstracts of the papers are available on a listserver in Trondheim, with address

continued on page 7

* Chairman of WG3.6 and of the International Program Committee of TeleTeaching 93

FOUROT RETIRES FROM IFIP



***Mr.** Fourot acknowledges the plaudits of GA members, in Tokyo.*

The 1993 **IFIP** General Assembly in Tokyo marked the end of the **IFIP** career of *Mr. Jacques Fourot,* who has been secretary since 1981 and representative of France since 1980. **IFIP's** president, *Prof. Asbjørn Rolstadås **(N),*** commended him on his long, dedicated, and invaluable service to **IFIP.** We shall miss his friendship and his extensive contributions to **IFIP.**

National Abbreviations Used in Newsletter

A	Austria	GR	Greece	P	Portugal
AUS	Australia	H	Hungary	PL	Poland
B	Belgium	HK	Hong Kong	RUS	Russia
BG	Bulgaria	I	Italy	S	Sweden
CDN	Canada	IND	India	V	Finland
CH	Switzerland	IRL	Ireland	SGP	Singapore
CZ	Czech Republic	IS	Iceland	SLO	Slovenia
D	Germany	J	Japan	SO	Slovakia
DK	Denmark	MEX	Mexico	USA	U.S.A.
E	Spain	N	Norway	ZA	South Africa
F	France	NL	The Netherlands	ZW	Zimbabwe
GB	United Kingdom	NZ	New Zealand		

GENERAL ASSEMBLY cont. from p. 1

New officers and trustees were elected. In addition, many other issues were addressed and decisions taken.

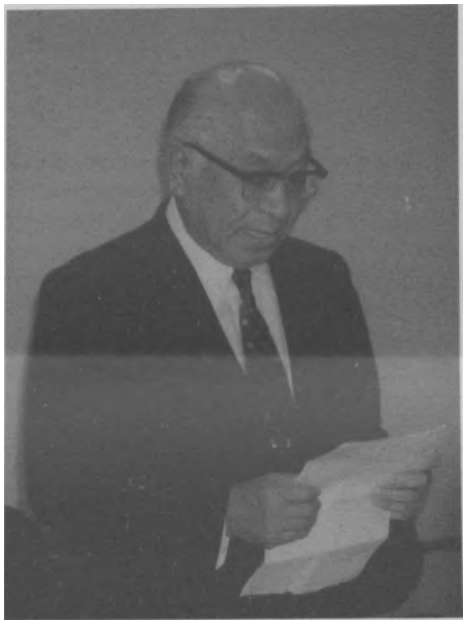
Dr. Yukio Mizuno, president of the Information Processing Society of Japan (IPSJ), welcomed the GA. He noted the tremendous growth of IPSJ since its founding 33 years ago and pointed out its increasingly international viewpoint. He observed that as the influence of information technology on society grows, so does the importance of the wisdom and leadership of **IFIP.**

Technical Activities

The primary consideration during the meeting of the Technical Assembly (TA) and GA was **IFIP's** technical activities. The highlights of the discussions are reported here. Several new Working Groups (WGs) were formed: WG2.9, Requirements Engineering (in the Technical Committee on Software: Theory and Practice, TC2); WG11.9, Crime and Information Technology (in TC11 on Security and Protection in Information Processing Systems); and WG12.5, Knowledge-Oriented Development of Applications (in TC 12 on Artificial Intelligence). Their Scopes and Aims will be published in a future issue of the *IFIP Newsletter.* In addition, the Technical Committee on Computer Systems Technology (TC10) announced new activities planned in the areas of computer animation, (in conjunction with TC5 on Computer Applications in Technology), virtual reality, computer-aided system theory, and microsystem technology (related to the combination of several technologies on one multi-layer module). TC8 (Information Systems) is planning new WGs on Technology Transfer/Diffusion in Information Systems, and on Requirements Engineering. WG9.2 (Social Accountability) proposed that work in the area of Computing and Disability be conducted under its aegis rather than in a new WG. TC11 is planning activity related to the certification of individuals in the information security profession. In addition, WG11.8 (Information Security Education) announced plans for the development of the curriculum for a university course at the graduate level in information-system security. TC3 (Education) announced plans for the seventh World Conference on Computers in Education, to be held in Copenhagen in the year 2001. Three thousand participants are expected.

TC9 (Relationship between Computers and Society) proposed a resolution, which the TA adopted, that all **IFIP** events should encourage the participation of people from developing countries, financially and by other means.

IFIP's president, *Prof. Asbjørn Rolstadås (N),* suggested a means to encourage younger members of the information processing community to participate in **IFIP** activities: the formation of "Special Interest Groups" (SIGs) within **IFIP** WGs, with membership open to all those interested, upon payment of a nominal membership fee. At present, membership in many **IFIP** WGs is very selective, with only the most well-known and experienced professionals in their fields invited to participate. The SIG concept would open **IFIP** technical activity to a much wider group. TCs 9 and 10 agreed to establish pilot SIGs in order to test this concept.



IPSJ president Mizuno welcoming GA

Discussions were held concerning the increasing use of e-mail within **IFIP** and Member societies. An article about this will appear in a future *Newsletter.*

Other discussions centered on ways in which **IFIP** currently consults for other organizations and governments and ways it might do more consulting in the future. Consulting can assist the recipients, bring credit to **IFIP,** and provide income.

The TA concluded with a "brainstorming" session concerning innovative activities in **IFIP.**

Congresss

Three future **IFIP** Congresses were considered by the GA. Plans for **IFIP** Congress '94 are discussed in an article on page 1. Preliminary plans for Congress '96 were discussed by the chairman of its International Program Committee, *Dr. Prem Gupta (IND),* and its Organizing Committee chairman, *Prof. Ashley Goldsworthy (AUS). Dr. Gupta* solicits suggestions from all parties. The Congress will take place in Canberra 2-6 September 1996.

Finally, the GA accepted the uncontested joint proposal of the Austrian Computer Society and the John von Neumann Computer Society of Hungary to hold Congress '98 in Vienna and Budapest and on Danube cruise boats between those cities. The Congress will be preceded by tutorials and an exhibition in Vienna on 23 and 24 August; one day of Congress sessions will be held in Vienna on the 25th; further Congress sessions will be held the following day on Danube cruise boats between the two sites; the third and last day of the Congress itself will take place in Budapest, followed by two more days of workshops and an exhibition.

Planners of Congress '96 and '98 are considering organizing each of these Congresses as a collection of relatively independent conferences sharing the venue, plenary sessions, social events, and Congress organization (registration, reservations for accommodations and other activities, etc.), but maintaining separate Program Committees.

Finances

IFIP's treasurer, *Mr. Aage Melbye (DK),* reported that the net financial result for 1993 is anticipated to be a deficit of 90K CHF (ninety thousand Swiss francs) ± 25K CHF. (The budget for 1993, as revised in March, called for a deficit of 50K CHF.) Additional, unanticipated expenses were entailed, however, in adjusting the pension fund for the Administrative Manager. In order to avoid the third deficit year in a row, the Finance Committee and *Mr. Melbye* carefully went over an initial draft of the 1994 budget to find areas where expenses could be reduced and income increased. This was especially difficult because of the costs of 60K CHF associated with the new position of Secretary General (see page 2). The major source of new revenue included in the budget is 30K CHF from "sponsorships" — that is, donations from corporations or other entities, which **IFIP** will acknowledge in an appropriate manner (e.g., by printing the sponsors' names on the cover of the *IFIP Bulletin).* The Finance Committee has the responsibility for raising these funds. Despite all efforts, however, the net result called for in the '94 budget is a deficit of 60K CHF.

Membership

Five memberships in **IFIP** were approved by the GA. The Thai Federation for Information Processing was accepted as a Full Member, representing Thailand. The Czech Society for Cybernetics and Informatics and the Slovak Society for Computer Science were accepted as Full Members, representing the Czech Republic and Slovakia, respectively, and replacing the membership of Czechoslovakia. Articles about these Members will appear in future issues of the *Newsletter.* The GA voted to accept the Russian Academy of Sciences as a Full Member, representing Russia and replacing the membership of the U.S.S.R. It is anticipated that other republics from the former Soviet Union will be accepted as Members, with equal status. The South East Asia Regional Computer Confederation (SEARCC), formerly a Full Member, was accepted as an Affiliate Member (see the article on page 4 of the June 1993 *Newsletter).* Representatives of Taiwan and China are expected to meet to discuss the possible admission of Taiwan as a Full Member. Cuba expressed its intention to pay past dues owed; thus, its membership may eventually be reinstated. The Developing Countries Support Committee reported that the West African Regional Computer Society and the African Regional Computer Confederation, both regional Members, are encountering difficulties remaining active and may not be **IFIP** Members much longer.

Elections.

The GA elected new officers and trustees. Since the nominating committees named only one nominee for each vacant position, and no other individuals were nominated from the floor, the elections were uncontested. Those elected are *Maj. Gen. A. Balasubrahmanian (IND),* reelected vice-president, *Mr. Graham Morris (GB),* elected secretary, *Mr. Aage Melbye (DK),* reelected treasurer, *Dr. Dipak Khakhar (S)* and *Mr. Masanori Ozeki (J),* reelected trustees for 3-year terms, and *Dr. Walter Grafendorfer (A),* elected trustee for a 2-year term. Since *Mr. Morris* is retiring as representative of the U.K., the GA elected him as an Individual Member, in order that he may serve as secretary.

Two TC chairmen who have served **IFIP** well for many years were missing from the Tokyo GA: *Mr. Marco Tomljanovich* (I), of TC5 and *Prof. ir. Gerard Reijns (NL)* of TC10. Since they had completed six years in office, they were no longer eligible for reappointment. Their service to **IFIP** and their warm companionship will be missed. Their successors, *Dr. Toru Mikami (J)* and *Dr. Egon Hörbst (A),* were welcomed by the TA and GA. (The resignation of *Mr. Jacques Fourot (F)* is discussed on page 3.)

Mrs. Patricia Glenn (CDN), the first woman GA representative since 1978, and *Mrs. Jane Hammond (AUS),* vice-chairperson of TC13, were welcome new faces at the otherwise all-male GA table.

IFIP president Rolstadâs thanking hosts

Other Actions

Dr. Khakhar, a member of the Marketing Committee, presented to the GA a prototype of a catalogue of **IFIP** Member societies, which will be printed and distributed to the societies within the next few months. The information has already been placed in the on-line **IFIP** databases. One to two pages are devoted to each Member (all categories). There is information on addresses, top officers, goals, membership, activities, publications, affiliations, and **IFIP** representative. The data should be invaluable to Member societies needing information about other Members, as well as to other organizations. Once again, *Dr. Khakhar* demonstrated his ability to rapidly carry out a major project.

The following significant activity also occurred:

- Outstanding Service Awards were approved by the GA. (See the article on page 2.)
- The trend away from large conferences and toward workshops was discussed. In part, this is because of the financial risk of large conferences.
- The **IFIP** Statutes and Bylaws (S&BL) were amended to permit a "territory" to become a Full Member of **IFIP.** (This makes **IFIP** regulations consistent with those of ICSU, the International Council of Scientific Unions.) The S&BL Committee, however, opposed making formal in the S&BL the proposal made by the March Council that Full Members that resign should not be permitted to rejoin **IFIP** as Associate Members for 3 years. The GA retains the freedom to so restrict membership.
- The Executive.Boards of **IFIP** and the International Medical Informatics Association (IMIA), an Affiliate Member of **IFIP,** met one evening during the GA. Further contact is expected
- *Dr. Salah H. Mandil* of the World Health Organization and *Dr. Aram Akopov* of UNESCO attended several of the week's meetings.
- The Executive Board decided to hold future Council and GA meetings for 4 days and to reduce the social programs. (See the article on page 6.)

The GA was adjourned by President *Rolstadås,* with many thanks to the IPSJ hosts for excellent organization and delightful hospitality. ■

WOMEN, WORK, AND COMPUTERIZATION

*by Dr. Alison Adam (GB)**

The fifth **IFIP** conference on Women, Work and Computerization (WWC) will take place 2-5 July 1994 in Manchester, U.K. It will provide a forum for researchers, practitioners, and users to present their experiences and research in an area of increasing international interest. As with previous WWC conferences, it will provide an opportunity for women working in computing to meet and share experiences. The conference is sponsored by **IFIP's** Working Group on Computers and Work (WG9.1).

The conference is titled "Breaking Old Boundaries: Building New Forms" and includes themes on Information Technology and Work, Information Systems Design, Education, and Theoretical Perspectives. There has been a good response to the call for abstracts, with over 90 submissions from around the world. Full papers should be submitted by January 15, 1994 to the address given in the Calls for Papers column on page 13. Participants may now register.

The joint chairs of the International Programme Committee are *Dr. Alison Adam (GB)* and *Dr. Jenny Owen (GB). Ms. Sue Williams (GB)* is chair of the Organizing Committee. ■

* co-chair of WWC International Program Committee

IFIP IN THROES OF PLANNING PUBLICATIONS POLICY

New Processes Sought

As announced previously (see page 5 of the June 1993 *IFIP Newsletter),* Elsevier/North-Holland, the primary **IFIP** publisher, has notified **IFIP** that it will not renew the present publications contract between the two organizations. Consequently, the March 1993 Council requested the Publications Committee (PC) to conduct an exhaustive review of the **IFIP** publication policy. Many issues are involved: dissemination of **IFIP** technical papers, quality, cost, availability, media (paper books, computer networks, CD-ROMs, etc.), preprints, income to **IFIP,** new publication routines, etc. The volume of material involved is extensive; during the past year, **IFIP** and Elsevier published 30 volumes in the *IFIP Transactions* series, which comprised nearly 12 000 pages.

Because the publication of books for **IFIP** events that occur after August 1994 is involved, it was essential for the PC to act rapidly. During the Council meeting, *Prof. Asbjørn Rolstadås (N),* the **IFIP** president, urged the PC to prepare its report well in advance of the September 1993 General Assembly (GA), so that GA members would have ample opportunity to study the proposals and engage in fruitful discussion. *Mr. Graham Morris (GB),* chairman of the PC at that time, subsequently wrote to certain **IFIP** Member societies, requesting their suggestions. Eleven responses were received.

Executive Board Decisions

No report from the PC was available to GA representatives prior to the GA. On the basis of a preliminary report, however, the **IFIP** Executive Board made the following decisions:

- There will be an agreement with a single publisher for all **IFIP** books.
- Higher quality will be achieved for all books.
- "Preprints" containing abstracts (1-2 pages each) of all papers will be available for all **IFIP** events.
- A series of 3-5 **IFIP** journals will be established, edited by well-respected specialists, who will be paid.

The PC agreed with these requirements, except for some reservations with regard to preprints. The PC believes in the advantages of publishing conference proceedings in time to be available at the conference.

A "Publications Contract Statement of Requirements" was developed at the time of the GA and sent to potential publishers at the end of September. Despite its title, the document contains little in the way of *requirements.* The overall tone of the document is expressed as follows: "**IFIP** wishes to be associated with the best of practical ideas in exploiting information technology while being well aware of the difficulties and pitfalls which may beset technological pioneers." It mentions as possibilities distribution of **IFIP** technical papers over computer networks (accessed by index and search facilities), in the form of paper books, and on CD-ROMs. It mentions the need for higher standards of quality in **IFIP** publications. It also requests proposals from potential publishers for widespread electronic distribution of all **IFIP** abstracts. It calls attention to the need for flexibility as follows: "It is important to be able to tailor the mode and style of a publication, its marketing and its pricing, in relation to its potential customers."

The Executive Board (not the PC) will review the bids submitted by publishers and select one in January 1994, so that a contract can be signed by the end of that month.

IFIP Journals

Technical Committee chairmen were requested to make proposals for **IFIP** journals by December 1993. The journals are to be either new, **IFIP-only** publications or perhaps sections of existing journals. The editors, to be paid, must be well-known professionals. Although rapid action with regard to journals is desired, President *Rolstadås* told the GA that he would try to defer action, so that the March 1994 **IFIP** Council could participate in the discussion.

Once more, appreciation was expressed for the fine job done by *Mrs. Stephanie Smit,* of Elsevier. *Prof. Wilfried Brauer (D)* was appointed as the new PC chairman.

NEW ADDRESSES FOR NEWSLETTER EDITOR AND SECRETARIAT

Please see the masthead on page 2 for the new address of the Editor of the *IFIP Newsletter* and the new e-mail address for the **IFIP** Secretariat.

SHORTER GA MEETINGS IN THE FUTURE

Following the September 1993 meeting in Tokyo, the **IFIP** Council and General Assembly (GA) decided to continue the practice, begun at the March 1993 Council meeting, of holding 4-day meetings. The meetings were reduced from 5 to 4 days because of complaints from many attendees (especially Council members, TC chairmen, and others who attend both Council and GA) that they could ill afford the time these meetings take. In Tokyo, the GA itself was less than 11/2 days long.

Many attendees felt that insufficient time was available to debate the many important issues presented. Also, some participants were unable to take advantage of low-cost air fares that impose a minimum length of stay. On the other hand, it was possible to conduct **IFIP** business within the 4 days scheduled for all the meetings, and most participants seem to be satisfied with the shorter session.

The generous social program provided to participants in the September 1993 Tokyo GA may also be the last of its kind. The hospitality — cocktail party, excursion, and dinner party — was funded in part by several Japanese and international corporations. Because many smaller Member societies cannot afford to organize a social program for the GA or even the Council, they are reluctant to invite **IFIP** to meet in their countries. To deal with this problem and to increase the time available for **IFIP** work in a 4-day meeting, the Executive Board established these guidelines for future meetings:

- there should be at most one social event
- that event should be modest
- there should be no excursion

Reducing the social program, however, has some disadvantages. Much **IFIP** work is actually carried out at these events (debating issues, meeting **IFIP** colleagues, and so on), work that cannot be done over dinner with a handful of **IFIP** co-workers. In addition, reducing the number of social events reduces the opportunity for members of the host society and **IFIP** people to meet. The excursion is the only occasion that many of the participants in the GA or Council have, during their business trips, for exposure to the culture of the host country. (Most hotels where **IFIP** meetings are held are totally international.) Losing this exposure is a pity for both attendees and the hosts, who generally wish their guests to have some experience with the local culture.

CONFERENCE ON HEALTH INFORMATICS IN AFRICA

*Dr. Salah H. Mandil **
*Dr. A.D. Akinde ***
Mr. Mikko Korpela t

The first international conference held in Africa concerning the uses of information technology in the health sector took place in Ile-Ife, Nigeria, 19-23 April 1993. It was the International Working Conference on Health Informatics in Africa (HELINA 93), organised under the auspices of the International Medical Informatics Association (IMIA), an Affiliate Member of **IFIP.** The Local Organising Committee was established by the Obafemi Awolowo University (OAU) Computer Science Department and the OAU Teaching Hospitals Complex, Belie, Nigeria. An Overseas Bureau was run by the Computing Centre, University of Kuopio, Finland. HELINA 93 was co-sponsored by the World Health Organization (WHO), **IFIP,** and several other organisations.

Of the 124 participants, 79 were from Nigeria, 35 from other African countries, and 12 from elsewhere. The delegates were equally divided between health/medical-care and computing/communications professionals. The exceptional geographical coverage of the Conference was matched by an equally fine coverage of health informatics topics.

A keynote address, 7 tutorial lectures, and 31 scientific papers formed the core of the programme. In addition, there were 5 parallel workshops for practical discussions and hands-on sessions. The proceedings have appeared as *Informatics Support to Healthcare in Africa HELINA* 93, edited by *S.H. Mandil, P. Byass, D. Forster, M. Korpela,* and *K. Moidu* and published by Elsevier/Excerpta Medica, as one of its prestigious International Congress series.

The organisation of HELINA 93 was not without some major difficulties. Nearly all African participants outside of the host country needed full financial sponsorship in order to be able to attend. This made fund-raising the main concern throughout the three-year period of organisation. Extreme austerity, and even personal sacrifices, enabled all but a few of the African countries that intended to send participants to do so.

A Pioneering Conference

The closing session included an evaluation of the Conference organisation and content. Participants unanimously regarded the Conference as very timely and a big success and urged that a HELINA 96 be planned. The atmosphere of enthusiasm and pioneering was particularly noted. HELINA 93 shed light on the geographic and substantive spread of informatics in health care in Africa, which was beyond what was believed before. A typical comment was, "I didn't know there was so much health informatics in Africa — and carried out mainly by Africans." It was also appreciated that, contrary to the situation in most scientific conferences, the presentations in HELINA 93 were not just academic treatises but oriented towards a social objective: Health for All. The combination of a training event and a scientific event, through tutorials and submitted papers, was appreciated and recommended to be followed in the future. The future HELINAs are to include more hands-on sessions and demonstrations, possibly preceded by national workshops and symposia.

It can be confidently stated that one of the most tangible long-term outcomes of HELINA 93 was the establishment of informal links within a clearly evident health informatics community in Africa. Good and bad experiences were exchanged, common concerns identified, and contacts and plans for collaboration created. The participants unanimously stressed that HELINA 93 would be recalled as a major catalyst for the development and sharing of improved policies, procedures, systems, facilities, and human resources for the relevant informatics support to health care in Africa. ■

* Director-Advisor on Informatics, WHO, Geneva, and Chairman of HELINA 93 Scientific Programme Committee
** Head of Computer Science Dept., Obafemi Awolowo University, Ile-Ife, Nigeria, and Chairman of HELINA 93 Local Organising Committee
t Senior Researcher, Univ. of Kuopio, Finland, and Chairman of HELINA 93 Overseas Bureau

TELETEACHING continued from page 3

info@tt93.tih.no. Send a message to this address and write only "help" in the Subject field to receive the necessary help on how to use the server. The server also contains information about WG3.6. Another useful address is janwi@ifi.unit.no.

Jan Bredeveien (N) was chairman of the TeleTeaching 93 Organizing Committee, and *Bjørn Ranum (N)* was chairman of the Steering Committee. ■

AUTONOMOUS DECENTRALIZED SYSTEMS

*by Dr. Kinji Mori (J)**

The First International Symposium on Autonomous Decentralized Systems (ISADS) 93 was successfully held in Kawasaki, Japan, March 30–April 1, 1993. It was sponsored by the Computer Society of the Institute of Electrical and Electronics Engineers (U.S.A.), the Information Processing Society of Japan, and The Society of Instrument and Control Engineers of Japan, in cooperation with **IFIP** and the International Federation of Automatic Control. There were 286 participants from 15 countries.

ISADS 93 was the first international symposium devoted to the subject of Autonomous Decentralized Systems (ADS) and their applications. ADS is a system concept in which each component works independently while cooperating with the other components in order to function as a total system. ADS ensures on-line properties: on-line expansion, on-line maintenance, and fault tolerance. ADS is based on the individual intelligence of each component; there is no master-slave relationship among the components. As in a living organism, the functions of a system are determined by the cooperation of all components. Therefore, the functions can be modified by adding, modifying, or deleting components while the whole system is operating.

The purpose of this Symposium was to provide a forum for researchers, developers, and users around the world to present their latest results and experience and to discuss the future trends of ADS and their applications.

The program consisted of three keynote addresses, three plenary panel discussion sessions, and 18 technical paper sessions that included 13 invited papers and 41 submitted papers (chosen from the 115 offered). In addition to the sessions at the Symposium site, there was a plant tour showing two ADS applications: the Shinkansen (bullet train) General Control Center and a major automated steel production system of the Kawasaki Steel Corporation.

The Symposium was chaired by *Stephen Yau (USA),* who served as chairman of the Organizing Committee of **IFIP** Congress '89, *Masanori Ozeki (J),* an **IFIP** trustee, and *Atsunobu Ichikawa (J).* The

continued on page 10

* Executive Secretary of ISADS 93

IFIP NEWSLETTER CELEBRATES TENTH ANNIVERSARY

by Dr. Jack Rosenfeld (USA), Editor

With this issue, we celebrate the tenth anniversary of the *IFIP Newsletter,* which first appeared in November 1983. Today, the *Newsletter* is a 16-page quarterly publication, with 4500 copies mailed to the **IFIP** community and additional copies distributed to participants at **IFIP** events. It began, however, with more modest goals.

Early in 1983, *Prof. Herbert Freeman (USA)* was given a mission by the **IFIP** Council to approach me to determine whether I would be interested in creating a new newsletter for **IFIP.** A need was felt for a newsletter to keep the **IFIP** community informed of events taking place in the Federation and to let others know what **IFIP** was doing. Since I had experience as an editor and prior connection with **IFIP,** it was thought that I might be able to do the job.

I had served on the U.S. Committee for **IFIP** Congress '71 *(Prof. Freeman* was chairman), had been Editor of the proceedings of **IFIP** Congress '74 *(Prof. Freeman* was chairman of the International Program Committee), and had been Associate Editor of the proceedings of Congress '71. I had also attended all **IFIP** Congresses since 1965, except for 1980.

I willingly agreed to prepare a proposal for a newsletter. With considerable help from *Mr. George Glaser (USA),* then a vice-president, and *Mme. Gwyneth Roberts,* Administrative Manager, I proposed a newsletter to the September 1983 **IFIP** General Assembly in Paris. At that time, *Prof. Ashley Goldsworthy (AUS),* then chairman of the Activities Planning Committee, cautioned that the newsletter should not contain substantive technical articles, only news. That warning has been heeded. *Prof. Asbjørn Rolstadås (N),* then chairman of TC5, cautioned that the size should be no more than 8 pages, lest nobody read it. Unfortunately, over the years, the size has crept up to 16 pages. The GA accepted the proposal, the first issue was published that November, and we were "off and running."

I' m grateful for the support I've received in this endeavor: from my employer, the International Business Machines Corporation, which encourages my participation in many significant ways; from *Mrs. Stephanie Smit* of Elsevier/North-Holland (they print the *Newsletter* gratis), who has labored to ensure that my interface with the printer is free of problems; from *Mme. Roberts* and *Mrs. Ruth Lawson* of the **IFIP** Secretariat, who provide extensive support; and from the **IFIP** GA and the *Newsletter* readers, who give me continual encouragement.

Prof. Rolstadås, now president of **IFIP,** kindly invited **IFIP** Member societies to celebrate this anniversary by sending their pins or other society mementoes for presentation to me at the Tokyo GA this past September. Many did so, and I was very touched and delighted to receive their letters and gifts. To all those who responded: I am grateful to you for your kind wishes.

IFIP CONGRESS '94 continued from p. 1

Accommodations

Bistros, restaurants, and cafes abound in Hamburg, renowned for its wide selection of fish restaurants. It also presents an international cuisine, especially in the neighborhood of the CCH, where one finds many restaurants of all styles and sizes.

In general, the hotel situation is very good. Within walking distance of the CCH are many low-priced hotels and pensions, as well as some of the most elegant hotels in Hamburg. Moreover, the extensive public transportation system (underground, city trains, and buses) will allow delegates to reach hotels or pensions in other parts of Hamburg easily and quickly. For those who register in June or earlier, there probably will be inexpensive pensions for $35 U.S. and hotels for as little as $70. Since **IFIP** Congress '94 will take place during university vacation time, quite a few of the 4000 student dormitory rooms in Hamburg will be available for Congress participants.

Hamburg can be reached quickly and easily in a few hours by car or train from all parts of Germany, Denmark, southern Sweden, the Netherlands, and Belgium. High-speed trains connect all major cities; trips between Hamburg and Frankfurt or Berlin take only 31/2 hours by train. Hamburg is only a few hours by plane from any city in Europe. One may also take an overnight ferry from London, Stockholm, or Helsinki to Hamburg.

More information about Hamburg and the Congress may be obtained from

Congress Secretariat

Congress Centrum Hamburg
Congress Organisation
P.O. Box 30 24 80
D-20308 Hamburg, Germany
fax: +49.40.3569.2343
Telex: +212609

Reports to the General Assembly

The Congress organizers reported to the GA that they expect an attendance of at least 1000 participants. They requested a loan of 50 000 Swiss francs from **IFIP** (to ameliorate cash-flow problems), which was approved by the GA.

The Congress International Program Committee (IPC) announced that many invited and keynote speakers have already accepted invitations to participate in the Congress. Their report stated, "When participants register for the Congress, they will be given the option to sign up to participate in one of the issues 'workstreams' on days 3-5, or they will have the option to 'freelance.' If they want to sign up for a `workstream,' they will be given a list of sessions they should attend to prepare them to participate intelligently in the discussions and Action Agenda formulation....Participants will be able to meet with 'expert' and 'specialist' invited speakers during lunch, for the duration of the Congress." Further details of the program can be found on page 1 of the June 1993 *IFIP Newsletter.*

TECHNICAL COMMITTEE CHAIRMEN

TC2:	P.C. Poole	AUS 89-94
TC3:	P. Bollerslev	DK 91-94
TC5:	T. Mikami	J 93-96
TC6:	0. Spaniol	D 92-95
TC7:	P. Thoft-Christensen	DK 89-95
TC8:	G.B. Davis	USA 89-95
TC9:	K. Brunnstein	D 89-95
TC10:	E. Hörbst	A 93-96
TC11:	W.J. Caelli	AUS 88-93
TC12:	R.A. Meersman	NL 89-95
TC13:	B. Shackel	GB 89-95
SG14:	J. Gruska	SO 89-95
SG15:	M. Novak	GB 93-96

THE IFIP NEWSLETTER - OUR FIRST YEAR

IFIP Newsletter
International Federation for Information Processing

Vol. 1, no. 2, February 1984

6-YEAR PLAN PUBLISHED

PLANS FOR IFIP CONGRESS '86 UNDER WAY

NEW FORMAT SOUGHT

IFIP's Activity Planning Committee recently published the 6-year plan for 1984–1990, which lists IFIP Congress '86 and 110 other conferences (working, general, regional, open, and international), symposia (general and international), seminars, meetings, and workshops that are planned by IFIP, its 9 Technical Committees (TCs), the International Medical Informatics Association, and the IFIP Committee: Informatics for Development.

The largest number of activities (22) is planned by TC5 (Computer Applications in Technology). France and the USA are the most popular locations, followed closely by the UK, Denmark, and Hungary. ■

The 10th World Computer Congress (IFIP Congress '86) will convene in Dublin, Ireland from September 1–5, 1986. Mr Dudley Dolan (Ireland) is chairman of the Organizing Committee. The Irish Computer Society will serve as host for the Congress. The site will be Trinity College, which occupies a site of some 37 acres in the center of Dublin.

The Congress exhibition, a major display of computer systems and services, will take place at the Royal Dublin Society Exhibition Centre in conjunction with the Irish Business Equipment Trade Association.

Since the triennial Congress is IFIP's major technical event, it is important that its program be carefully constructed and as generally appealing as possible. Prof. Frank Sumner (UK), chairman of the Congress Program Committee, which is bearing all responsibility for the selection of new concerning the structure of the programs for IFIP Congresses.

Recent IFIP Congresses have [illegible] the difficulties of other general purpose conferences: attendance is declining and becoming more expensive, and competing for the same attendees and the best papers are being subdivided by conferences for specialists, where authors can meet more

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Editor
Dr. Jack L. Rosenfeld
IBM Corporation, Thomas J. Watson Research Center
P.O. Box 218, Yorktown Heights, NY 10598, USA
tel. (914) 945-3097, telex 0221274(IBM)

Distributed by
IFIP Secretariat
2 rue du Marché, CH-1204 Geneva, Switzerland
tel. (022) 28 28 45, telex 23 419 ifip ch

IFIP Newsletter
International Federation for Information Processing

Vol. 1, no. 3, May 1984

MEDINFO 83

IFIP COUNCIL MEETS IN SOUTH AFRICA

Greater Cooperation with Unesco Planned

MEDINFO 83, the Fourth World Conference on Medical Informatics took place in Amsterdam, The Netherlands, in August, 1983. More than eighteen hundred attended this event and an associated program of seminars sponsored by the International Medical Informatics Association of IFIP (the IFIP special interest group). Four hundred papers were presented during the six day meeting. Mr J. Roukens (Belgium) chaired the Organizing Committee.

Council Meeting in Cape Town. Seated: O. Dalton, J. Evans, P. Bobillier, R. Bhatt, G. Glaser, A. Goldschlager, Standing: S. Seid, D. Dolan, G. Roberts, W. Zemanek, A. McPhee, G. [illegible], C. Secondini, I. Carlsson, J. Driscoll, J. Pryor, J. Rosenfeld.

[illegible] in Cape South Africa.

[illegible] portant matters [illegible] posal from the [illegible] nal, Scientific [illegible] tion (Unesco) [illegible] up with IFIP. *Head Address* [illegible] nesco suggesting [illegible] operation. It [illegible] travel grants [illegible] m developing [illegible] IFIP events [illegible] ines some IFIP [illegible] o perform specific [illegible] and studies, [illegible] n disseminate [illegible] with IFIP—[illegible] nations where IFIP is not represented.

4) request IFIP to recommend informatics experts to fulfill the needs of nations that require help.

5) distribute IFIP publications more widely.

The Council viewed the Unesco proposal as providing IFIP an opportunity to be of greater service to developing nations, and formed a committee (Liaison with Unesco), under the chairmanship of Prof. R. Narasimhan (India), to handle the matter.

25th Anniversary

IFIP's 25th anniversary, to be celebrated 27 March 1985 in Munich, in conjunction with the Council meeting, was discussed. Prof. F. L. Bauer (FRG) is chairman of the committee preparing a symposium planned for the event. IFIP vice-president Mr

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IFIP Newsletter
International Federation for Information Processing

Vol. 1, no. 1, November 1983

MEET DR. ANDO
New IFIP President

Dr. Kanru Ando assumed the Presidency of IFIP at the closing ceremony of IFIP Congress '83 on September 23. Following is a brief biography of IFIP's new leader.

Dr. Ando was born in Tokyo. He was educated at Indiana University.

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IFIP CONGRESS '83 HELD IN PARIS

9th WORLD COMPUTER CONGRESS

IFIP's most prominent activity, the triennial Congress, took place in Paris at the Palais des Congrès, from September 19–23. Over 2700 attended the technical sessions, while thousands visited the exhibit held in conjunction with the International Trade Show for Informatics, Telematics, Communications and Office Organization and Office Automation (SICOB).

During previous Congresses, many participants expressed the wish to see more emphasis on the practical aspects of informatics. The Program Committee (PC) accommodated these wishes by introducing new areas, e.g. application systems, office information systems, and microprocessor applications. This year's program was heavily oriented toward invited speakers and panel sessions, which occupied more than half of the program time. There were 40 invited speakers, 11 panels, and 98 submitted papers. Many notables in information processing participated. Typically, seven sessions were held simultaneously.

Information Processing 83, the Congress proceedings, were edited by Dr. Richard Mason (Canada) and published by the North-Holland Publishing Co.

The opening session was highlighted by addresses from the Prime Minister of France Mr. Pierre Mauroy and the Director General of UNESCO, Mr. Amadou Mahtar M'Bow. Also speaking were then IFIP President Prof. Pierre Bobillier (Switzerland), Organizing Committee Chairman Mr. Jacques Carteron (France), Program Committee Chairman Prof. Dionysios Tsichritzis (Canada), Organizing Committee Vice-Chairman Mr. Marc Hermieu (France), and Association Française pour la Cybernétique Economique et Technique (AFCET) President Mr. Jean-Paul de Blasis (France). In addition to the talks, the opening session was notable for its electronics: the televised images of the speakers were projected on a huge screen at the rear of the platform, and their speeches were simultaneously translated into French or English, both of which were broadcast over earphones at each attendee's seat.

The major social event of the Congress was the banquet, held in the beautiful, fourteenth century Gothic galleries of "La Conciergerie," situated in the heart of ancient Paris, on Ile de la Cité. It was complete with musicians, balladeers, clowns, jugglers and fire-eaters, all in medieval raiment. After a full week's activities, the Congress ended with a closing ceremony including addresses by Mr. Fernin Bernasconi, Director General of the Intergovernmental Bureau for Informatics, and the former President of AFCET Mr. André Danzin. The Silver Core awards were presented at this time. (See the separate article in this issue.) Finally, IFIP President Bobillier turned over the gavel to President-Elect Dr. Kanru Ando (Japan), whose term continues until 1986.

The next IFIP Congress will be held in Dublin, Ireland, Sept. 1–5, 1986. □

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IFIP Newsletter
International Federation for Information Processing

Vol. 1, no. 5, December 1984

CLEI ADMITTED TO GA

GA MEETS

The IFIP General Assembly, meeting in Varna in September, admitted the Centro Latinoamericano de Estudios en Informatica (CLEI) to full membership. Here is a brief history of the organization:

continued on page 5

The IFIP General Assembly (GA) and Council met in Varna, Bulgaria 17–21 September 1984 with the Bulgarian Academy of Sciences acting as host. San Francisco, California, USA was selected as the site for IFIP Congress '89. IFIP's technical work was assessed and found to be in a healthy state. As is customary, each Technical Committee (TC) delivered its report. All are functioning smoothly and holding productive conferences.

San Francisco was chosen for Congress '89 after a lengthy discussion. This decision was taken earlier than usual because of the need to reserve space well in advance. The American Federation of Information Processing Societies proposed to hold the Congress at the Moscone Center, a new and well-equipped facility.

Officers Elected

Officers were elected as follows. Messrs. Jacques Fontet (FT) and Owen Dalton (IRL) were reelected for 3-year terms as secretary and treasurer, respectively, and Acad. Blagovest Sendov (Bulgaria) was elected vice-president for a 3-year term. Three trustees were also elected: Acad. Anatol Dorodnicyn (USSR) reelected for a 3-year term, Mr. Hennie Leroux (Republic of South Africa) elected for a 3-year term; and Mr. Luis Penedo (Portugal) elected for a 2-year term.

Centro Latinoamericano de Estudios en Informatica (CLEI) was admitted to membership in IFIP. (See the article on CLEI on this page.)

Among the more important issues [illegible] ated, and an ICID Development Fund was established, with an initial budget of 20 000 SFr.

Possible restructuring of IFIP was discussed at length. (See the article "Task Group on Restructuring IFIP" in the September 1984 *IFIP Newsletter*.) One step that was suggested was to create seats on the Activity Planning Committee (APC) for TC chairmen. Another proposal was to create a committee of TC chairmen, with a representative sitting on the APC. A suggestion with regard to the role of Affiliate Members was for IFIP to actively seek out potential affiliates and eventually evolve into an umbrella organization. The Task Group on Restructuring plans to report its suggestions to the IFIP Council next March.

TC Reviews

The TC review process was discussed by Mr. George Glaser (USA), chairman of the Task Group on TC Reviews. It was recommended that the chairman of a TC being reviewed serve on the committee, that the organizer officer for the TC preferably [illegible] fields of interest in information processing, often with a strong applications bent, which do not fall naturally within the scope of any one existing [illegible]

[illegible] Chairman of the Task Group on Restructuring; GA representative from the UK; and IFIP Trustee.

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[illegible] an IFIP SIG [illegible] seems to imply a degree of maturity and of financial independence. A SIG is therefore an inappropriate way of dealing with a new subject area.

Affiliate Members

Affiliate members usually have some form of application specialty, and their exact relationships with IFIP are not too clear. We have encouraged our TCs to invite participation from appropriate affiliate members, presumably to seek some contribution to our work by them and to give us the opportunity of contributing to theirs.

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ANDO RECOVERED

IFIP's president Dr. Kanru Ando (Japan) returned to a normal work schedule early in June, after surgery and a long period of recovery. He wishes to express his appreciation for all the help IFIP members rendered to him during his absence. Welcome back, Dr. Ando! ■

[illegible] NG IFIP

BOBILLIER DEPARTS

After the General Assembly (GA) meeting this September, Prof. Pierre Bobillier will complete his long, active career in IFIP, having served as Switzerland's delegate to the GA since 1968, secretary from 1969 to 1975 (minus from 1975 to 1976, and president for an unprecedented two terms (1977–83).

In his final report to the GA last September he wrote, "What I consider as the most important achievements during the past year are the new fields in which IFIP is starting to be involved (Government and Municipal Data Processing, and Security); activities besides the Congress which are now established: World Conference on Medical Informatics (MEDINFO), World Conference on Computers in Education (WCCE), and Conference on Computer Applications in Production and Engineering (CAPE); new

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VISUALIZATION IN SCIENTIFIC COMPUTING USED IN UNIVERSITY EDUCATION

*by drs. Tom J. van Weert (NL)**

Visualization in Scientific Computing: Uses in University Education was the title of a Working Conference sponsored by IFIP's Working Group on Informatics Education at the University Level (WG3.2), held 28-30 July 1993 in Irvine, California. Approximately 45 attended. The presentations fell into either the category of computer science (Informatics) or the category of scientific computing in another discipline, often a computing discipline (Informational Discipline). This dichotomy between Informatics and Informational Disciplines (computer science and computing sciences) has developed over the years and is now quite apparent. Scientific visualization is an important part of both fields. Informatics plays a role in Informational Disciplines in the areas of modelling, data structures, programming, software engineering, and human interfacing. Scientific visualization is related to the areas of modelling and human interfacing, and has a strong Informational-Discipline—based component. An example is the visualization of microscopic molecular worlds.

Several examples of visualization (or multi-media presentation) in different disciplines were presented at the conference. Also several visualization tools in support of programming were presented. There were theoretical presentations as well as papers on visualizations in education.

The conclusion was drawn that scientific visualization is a powerful tool in learning in many Informational Disciplines (computing sciences); however, the tool is only sparingly used in Informatics education (e.g., dynamic visualization of programming concepts). Visualization supports learning by students, enabling them to reflect on dynamic concepts. The most effective and motivating way is to let students in Informatics design and implement their own visualizations. Visualization also has a role to play in Application Oriented Informatics education. It bridges the gap between Informatics and Informational Disciplines. Applications-oriented informaticians need to develop visualization skills to be able to communicate with designers or users from other disciplines.

The Conference began with a keynote presentation by *Troy Nagel,* President-Elect of the U.S. Institute of Electrical and Electronics Engineers (IEEE), on the role of IEEE in a world dominated by technological change.

The International Program Committee was chaired by *Bernard Levrat (CH),* chair of WG3.2, and the Organizing Committee by *Stephen Franklin (USA).* Proceedings, edited by *Franklin* and *Alan Stubberud (USA),* will be published by Elsevier/North-Holland by the end of 1993.

* WG3.2 vice-chair

SECRETARY GENERAL cont. from p. 2

use of e-mail, and integration of all systems. It is expected that the Secretary General will relieve the **IFIP** secretary and treasurer of much of their routine activities, including managing the **IFIP** budget.

The third role, implementing decisions, is intended to make **IFIP** a more effective organization, operating continuously rather than in spurts. One often hears the complaint that all **IFIP** work seems to occur within the two-week periods preceding the March Council meeting and the September GA. Although hyperbole, this charge carries an element of truth. It is anticipated that the Secretary General will assist **IFIP** volunteers to carry out their work throughout the year, reminding them of tasks that require attention and providing assistance in completing the tasks.

An added job, and a major one, for the Secretary General is to manage **IFIP** publication activities

The Executive Board is proceeding to hire someone as Secretary General. The position is to be part-time (approximately 40%) and filled by January 1994. The GA decided that a two-year contract should be offered, with an option that permits cancellation after six months. The Council will make that decision in March 1994. (At the time of the Council meeting, the new Secretary General is expected to present the results of her or his study for reorganization of the Secretariat and other economies.) It was pointed out that because of the excellence of contemporary international communication, it is not essential that the Secretary General live in the vicinity of the Secretariat.

It was also announced to the GA that *Mme. Gwyneth Roberts,* who has served with acclaim as Administrative Manager of the Secretariat since January 1975, will reach retirement age and retire in February 1995. This development lends urgency to the steps now being taken with regard to the Secretariat.

ISADS 93 continued from page 7

Program Committee was chaired by *Domenico Ferrari (USA).* The proceedings were edited by *Doo-Hwan Bae (USA)* and published by the IEEE Computer Society Press. The Operation Committee chair was *Singi Domen (J),* and the Executive Secretary was *Kinji Mori (J).*

At a meeting for future ISADS, it was decided that ISADS will be held every two years. The United States, Europe, and Asia will host this international symposium in turns. ISADS 95 is planned for the San Francisco Bay area of California, April 10-12, 1995. For more information on ISADS 95, please contact *Stephen S. Yau* (yau@cis.ufl.edu) or *Kinji Mori* (kmori @ sdl.hitachi.co.jp).

On-Line IFIP Database

All readers are reminded that a database of **IFIP** information (including this *Newsletter) is* now available through international computer networks. Access is possible via ftp from the repository at

software.watson.ibm.com

and via ordinary e-mail from the

listserv@cearn (Bitnet)

repository. In addition, the database can be accessed through GOPHER. An article giving details of how to access the database can be found on page 10 of the March 1993 ***IFIP*** *Newsletter* or requested from the **IFIP** Secretariat. Member societies of **IFIP** are urged to bring the **IFIP** database to the attention of their members.

CALLS FOR PAPERS cont. from p. 13

Eighth IFIP WG5.6 Intl. Conf. on Computer Applications in Shipbuilding — ICCAS'94
5-9 Sep 94, Bremen, Germany
papers due: 30 Apr 94
contact: ICCAS 94 Intl. Programme Committee
do Kockums Computer Systems AB
P.O. Box 505 55
S-202 15 Malmo, Sweden
fax: +46 40 97 02 72
e-mail: iccas94@kcs.se

Sixth World Conf. on **Computers in Education**
23-28 Jul 95, Birmingham, U.K.
papers due: 31 Jul 94
contact: WCCE/95
Margaret St.
Birmingham B3 3BW, U.K.
tel: 44+(0)21-428 1258, fax: 44+(0)21-428 2246

Fifth **IFIP** TC5 Intl. Conf. on **Computer Applications in Production and Engineering — CAPE'95**
22-24 Aug 95, Beijing, China
extended abstracts due: 31 Aug **94**
contact: Prof. Zesheng Tang
Computer Dept.
Tsinghua Univ.
Beijing, 100084, China
fax: 86.1.256768

EW IFIP PUBLICATIONS FROM NORTH-HOLLAND

Computer Mediated Education of Information Technology Professionals and Advanced End-Users

Proceedings of the IFIP WG3.4 Working Conference, Soest, Germany, 12-16 July 1993

Edited by **B.Z. Barta, J. Eccleston** and **R. Hambusch**

IFIP Transactions A: Computer Science and Technology Volume A-35

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ISBN 0-444-81488-4

Facing the Challenge of Risk and Vulnerability in an Information Society

Proceedings of the IFIP WG9.2 Working Conference, Namur, Belgium, 20-22 May 1993

Edited by **J. Berleur, C. Beardon** and **R. Laufer**

IFIP Transactions A: Computer Science and Technology Volume A-33

©1993 326 pages Paperback
Price: Dfl. 185.00 (US $ 105.75)
ISBN 0-444-89878-6

Systems Engineering in Public Administration

Proceedings of the IFIP TC8/WG8.5 Working Conference, Luneburg, Germany, 3-5 March 1993

Edited by **H.E.G. Bonin**

IFIP Transactions A: Computer Science and Technology Volume A-36

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ISBN 0-444-81560-0

Advanced Information Processing Techniques for LAN and MAN Management

Proceedings of the IFIP TC6/WG6.4 International Conference, Versailles, France, 7-9 April 1993

Edited by **J.-P. Claude**

IFIP Transactions C: Communication Systems Volume C-17

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Price: Dfl. 195.00 (US $ 111.50)
ISBN 0-444-81634-8

Protocol Specification, Testing and Verification, XIII

Proceedings of the IFIP TC6/WG6.1 Thirteenth International Symposium, Liege, Belgium, 25-28 May 1993

Edited by **A. Danthine, G. Leduc** and **P. Wolper**

IFIP Transactions C: Communication Systems Volume C-16

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Computer Security

Proceedings of the IFIP TC11 Ninth International Conference on Information Security, IFIP/Sec 93, Toronto, Canada, 12-14 May 1993

Edited by **E.G. Dougall**

IFIP Transactions A: Computer Science and Technology Volume A-37

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Informatics and Changes in Learning

Proceedings of the IFIP TC3/WG3.1/WG3.5 Open Conference, Gmunden, Austria, 7-11 June 1993

Edited by **D.C. Johnson** and **B. Samways**

IFIP Transactions A: Computer Science and Technology Volume A-34

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Advances In Production Management Systems

Proceedings of the IFIP TC5/WG5.7 Fifth International Conference, APMS '93, Athens, Greece, 28-30 September 1993

Edited by **I.A. Pappas** and **I.P. Tatsiopoulos**

IFIP Transactions B: Computer Applications in Technology Volume B-13

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Protocol Test Systems, VI

Proceedings of the IFIP TC6/WG6.1 International Workshop, Pau, France, 28-30 September 1993

Edited by **0. Rafiq**

IFIP Transactions C: Communication Systems Volume C-19

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Reliability and Optimization of Structural Systems, V

Proceedings of the IFIP WG7.5 Fifth Working Conference, Takamatsu, Kagawa, Japan, 24-26 March 1993

Edited by **P. Thoft-Christensen** and **H. Ishikawa**

IFIP Transactions B: Computer Applications in Technology Volume B-12

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IN PREPARATION:

NetWORKing: Connecting Workers In and Between Organizations

Proceedings of the IFIP WG9.1 Working Conference, Vienna, Austria, 16-18 June 1993

Edited by **A. Clement, P. Kolm** and **I. Wagner**

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DECEMBER 1993

CALLS FOR PAPERS

IFIP Work. Conf. on **Programming Concepts, Methods and Calculi — PROCOMET'94**
6-10 Jun 94, San Miniato, Italy
papers due: 1 Dec 93
contact: Prof. Dr. E.-R. Olderog
FB Informatik
Univ. Oldenburg
Postfach 2503
D-2900 Oldenburg, Germany

IFIP WG9.3 Work. Conf. on **Home-Oriented Informatics, Telematics and Automation**
27 Jun-1 Jul 94, Copenhagen
abstracts due: 1 Dec 93
contact: Kresten Bjerg or Bjorn Nake
Psychological Laboratory
Univ. of Copenhagen
88 Njalsgade
DK 2300 Copenhagen S, Denmark
tel: +45 31 54 18 56, fax: +45 32 96 31 38
e-mail: kresten@vax.psl.ku.dk

IFIP TC5 & WG5.3 Intl. Conf. on **Feature Modeling and Recognition in Advanced CAD/CAM Systems**
24-26 May 94, Valenciennes, France
papers due: 15 Dec 93
contact: M. Dominique Deneux
Laboratoire d'Automatique et de Mécanique Industrielles et Humaines
Université de Valenciennes
Le Mont Houy – BP 311
59304 Valenciennes Cedex, France
tel: (+33) 27 14 13 55, fax: (+33) 27 14 12 88
e-mail: deneux@univ-valenciennes.fr

Nineteenth **IFAC/IFIP** WG5.4 Workshop on **Real Time Programming — WRTP '94**
22-24 Jun 94, Isle of Reichenau, Germany
extended abstracts due: 31 Dec 93
contact: W.A. Halang
Fem Universität
Faculty of Electrical Engineering
D-58084 Hagen, Germany
tel: +49-2331-987-372, fax: +49-2331-987-375
e-mail: wolfgang.halang@fernuni-hagen.de

Thirteenth World Computer Congress: **IFIP Congress '94**
28 Aug-2 Sep 94, Hamburg, Germany
papers due: 14 Jan 94
contact: IFIP '94
c/o Congress Centrum Hamburg
Congress Organisation
P.O. Box 30 24 80
W-2000 Hamburg 36, Germany
tel: +49 40/35 69-22 42, fax: +49 40/35 69-23 43
telex: +212 609

IFIP WG8.1 Conf. **CRIS 94 — Methods and Associated Tools for the Information Systems Life Cycle**
26-28 Sep 94, Maastricht, The Netherlands
papers due: 15 Jan 94
contact: CRIS 94 Conference Secretariat
attn. Mrs. Mieke van Zutphen
Univ. of Limburg
Faculty of Economics and Business Administration
P.O. Box 616
6200 MD Maastricht, The Netherlands
tel: +31-43-883656, fax: +31-43-258495
e-mail: cris94@be.rulimburg.nl

Fifth **IFIP** WG9.1 Conf. on **Women, Work and Computerization — WWC5'94**
2-5 Jul 94, Manchester, U.K.
papers due: 15 Jan 94
contact: Alison Adam
IFIP WWC5
Dept. of Computation
UMIST
P.O. Box 88
Manchester M60 1QD , U.K.
e-mail: aadam@mac.co.umist.ac.uk
tel: +44 (0) 61 200 3330, fax: +44 (0) 61 200 3324

IFIP WG5.7 Workshop on **Benchmarking — Theory and Practice**
16-18 Jun 94, Trondheim, Norway
papers due: 1 Feb 94
contact: Solfried Sorensen
SINTEF Prod. Eng.
R. Birkelandsv. 2B
N-7034 Trondheim, Norway
tel. +47 7 592 799, fax: +47 7 597 043

IFIP WG10.3 and ACM Intl. Conf. on **Parallel Architectures and Compilation Techniques — PACT '94**
24-26 Aug 94, Montreal, Canada
extended abstracts or papers due: 4 Feb 94
contact: Prof. Guang R. Gao
McGill Univ.
School of Computer Science
3480 University St.
Montreal, Canada H3A 2A7
tel: 1 (514) 398-4446, fax: 1 (514) 398-3883
e-mail: PACT94@acaps.cs.mcgill.ca

Third **IFIP** WG10.5 Intl. Workshop on **Hardware/Software Codesign — Codes/CASHE '94**
? Sep 94, Grenoble, France
papers due: Feb 94
contact: Alexander Sedlmeier
Siemens AG, Corporate R&D
Otto-Hahn-Ring 6
81730 Munich, Germany
tel: +49 89 636 46882, fax: +49 89 636 45111
e-mail: codes@ztivax.zfe.siemens.de

Eighth **IFIP WG11.3** Work. Conf. on **Database Security**
23-26 Aug 94, Hildesheim, Germany
papers due: 14 Mar 94
contacts:
Matthew Morgenstern
Xerox Design Research Institute
Cornell University
5144 Upson Hall
Ithaca, NY 14853, U.S.A.
fax: +I 607 2544 742
in Europe:
Joachim Biskup
Institut f. Informatik
Univ. of Hildesheim
Samelsonplatz 1
D-3200 Hildesheim, Germany
fax: +49 5121 883732

continued on page 10

FUTURE IFIP MEETINGS

GENERAL ASSEMBLY AND COUNCIL (and related meetings)

Council	28 Feb-3 Mar 94 (Mon.–Thurs.)	Brussels, Belgium
GA	3-6 Sep 94 (Sat.–Tues.)	Hamburg, Germany
GA	(contiguous to **IFIP** Congress '96)	Canberra, Australia
GA	(contiguous to **IFIP** Congress '98)	Vienna, Austria, or Budapest, Hungary

TECHNICAL COMMITTEE AND WORKING GROUP MEETINGS *

TC2	25-26 Aug 94 (tentative)	Hamburg, Germany
WG2.1	24 Jan 94	Utrecht, the Netherlands
	Sep 94	Japan (under study)
WG2.2	6-10 Jun 94 (with conf.)	San Miniato, near Pisa, Italy
WG2.3	same	
WG2.4	23-27 May 94	Szeged, Hungary
WG2.7	Feb 94 (tentative, with seminar)	New Zealand
	April/May 94	Boston, MA, U.S.A.
WG2.8	mid 94	Calgary, Alberta, Canada
TC3	26-27 Aug 94	Hamburg, Germany
	22-29 Jul 95 (with WCCE **'95)**	Birmingham, U.K.
TC6	22-23 Apr 94	Funchal, Madeira Islands, Portugal
	7-8 Oct 94 (with SEACOMM conf.)	Malaysia
	23-24 Mar 95 (with conf.)	Durban, South Africa
	95 (under study)	U.S.A. or Turkey
TC7	17 Dec 94	Prague, Czech Republic
TC8	8-12 May 94 (with conf.)	Queensland, Australia
WG8.4	same	
WG8.5	May 94 (under study)	Pacific rim
TC9	27-28 Aug 94	Hamburg, Germany
WG9.1	21-26 Feb 94 (with conf.)	Havana, Cuba
WG9.2	14 Jan 94	Namur, Belgium
	23-24 Jul 94 (provisional)	Amsterdam, the Netherlands
WG9.3	June 94 (provisional)	Copenhagen, Denmark
WG9.4	4-6 Mar 94	Bratislava, Slovakia
TC10	Mar 94 (under study)	South Africa
WG10.2	second quarter 94 (under study)	North America
WG10.4	7-8 Jan 94	San Deigo, CA, U.S.A.
	Jun 94	Austin, TX, U.S.A.
TC11	21-22 May 94 (prior to IFIP/SEC'94)	Curacao, Netherlands Antilles
TC12	28 May 94 (with conf.)	near Bonn, Germany
WG12.1	Nov. 94 (with workshop)	Mexico City, Mexico
WG12.2	April 94	Catania, Sicily, Italy
	July 94	New Jersey, U.S.A.
	Sept 94	Hamburg, Germany

* Some meetings are scheduled in conjunction with Working Conferences, for which the conference dates are listed.

Will TC and WG chairmen kindly keep the Secretariat advised of the dates and locations of their future administrative meetings and also send a copy of the minutes to the Secretariat.

CHANGES IN IFIP

NEW APPOINTMENTS

FULL MEMBERS:

GA rep. of The Czech Republic: Dr. J. Dolezal
Institute of Information Theory & Automation
Academy of Sciences of The Czech Republic
Pod vodarenskou vezi 4
CZ-18208 PRAGUE, The Czech Republic
tel: +42 2 815 2062
e-mail: doelzal@cspgasll.bitnet

GA rep. of France: Mr. B. Robinet
Telecom Paris, Dept. DF
46 rue Barrault
F-75000 PARIS-Cedex 13, France
tel: +33 1 45897061, fax: +33 I 45807247

GA rep. of Slovakia: (not named yet)
Slovak Society for Computer Science
MFF UK
SO-84215 BRATISLAVA, Slovakia
tel: +42 7 726 635, fax: +42 7 727041
e-mail: SIS@MFF.UNIBA.CS

GA rep. of Thailand: Prof. Dr. S. Charmonman
Assumption University (ABAC)
Ramkhamhaeng 24
BANGKOK 10240, Thailand
tel. +662 3004543, fax: +662 3004918
e-mail: oicharm@chulkn.chula.ac.th

AFFILIATE MEMBER:

GA rep. of SEARCC (South East Asia Regional Computer Confederation): Mr. R. Iau
do Institute of Systems Science
National Univ. of Singapore
Heng Mui Keng Terrace
Kent Ridge
Singapore 0511, Singapore
tel: +65 7722094, fax: +65 7750938

TC and WG OFFICERS:

TC12 secretary: Prof. Dr. B. Neumann
Fachbereich Informatik
University of Hamburg
Bodenstedtstrasse 16
D-22765 HAMBURG, Germany
tel: +49 40 41236128 or 30, fax: +49 40 41236530
e-mail: neumann@informatik.uni-hamburg.de
(succeeding G. Barth)

WG2.1 chairman: Dr. D.R. Smith
Kestrel Institute
3260 Hillview Avenue
Palo Alto, CA 94304, U.S.A.
(succeeding H. Partsch)

WG2.6 secretary: Prof. S. Spaccapietra
Ecole Polytechnique de Lausanne
Dept. Informatique - EPFL
Ecublens
CH-1015 LAUSANNE, Switzerland
(succeeding C. Piprani)

WG2.7 secretary: Mr. G. Cockton
Computing Science Dept.
The University of Glasgow
GLASGOW, G12 8QQ, U.K.
(succeeding I. Newman)

WG3.2 vice-chairman: drs. **T.J.** van Weert
School of Informatics
Faculty of Mathematics & Informatics
University of Nijmegen
P.O. Box 9010
NL-6500 GL NIJMEGEN, The Netherlands
tel. +31 80 652365 or 652084, fax: +31 80 553450
e-mail: school@cs.kun.nl

WG3.3 vice-chairperson: Dr. Betty Collis
Dept. of Educaiton
University of Twente
P.O. Box 217
NL-7500 AE ENSCHEDE, The Netherlands
tel: +31 53 893642, fax: +31 53 356531
e-mail: collis@edte.utwente.nl

WG3.6 chairman: Mr. J. Wibe
Nyheimsvn 22A
N-7085 JAKOBSLI, Norway
tel: +47 7 5963599, fax: +47 7 596637
e-mail: janwi@ifi.unit.no
(succeeding G. Kovacs)

WG3.6 vice-chairman: Mr. G. Davies
The Open University
Walton Hall
MILTON KEYNES, MK7 6AA, U.K.
tel: +44 908 652680, fax: +44 908 652140
e-mail: g.davies@open.ac.uk
(succeeding H. Maurer)

WG11.8 vice-chairperson: Prof. Louise Yngstrom
Royal Institute of Technology
Univ. of Stockholm
S-106 91 Stockholm, SWEDEN

WG12.3 vice-chairman: Mr. B. Nebel

WG12.5 chairman:
(Knowledge-Oriented Development of Applications)
Prof. J. Cuena
Facultad de Informatica
Universidad Politecnica
E-28660 BOADILLA DEL MONTE - Madrid, Spain

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Publications: Prof. Dr. W. Brauer
IFIP-UNESCO Liaison Officer: Mr. G.J. Morris

COGNIZANT OFFICERS:

TC3: Mr. G.R. Fairall
TC9: Dr. W. Grafendorfer

TC and WG MEMBERS:

TC2: G. Klimko (H), succeeding E. Knuth
TC3: Prof. P.S. Grover (IND), succeeding B. Nag
Mr. J. Wibe (N), succeeding A. Staupe
TC7: Dr. R.K. Bagge (IND),
succeeding D.K. Subramanian
TC8: Dr. G. Szephalmi (H), succeeding K. Garab
Mr. S.Ch. Pani (IND),
succeeding G. Kalyanasundaram
TC9: Mr. S.S. Chatterjee (IND),
succeeding S.C. Bhatnagar
J.A.N. Lee (USA)
L. Uncovsky (SO, formerly CZ)
TC10: Dr. I. Erenyi (H), succeeding G. Lörincze
TC12: Prof. J. Komorowski (N), succeeding S. Arff
WG2.4: M. Lemoine (F)
WG2.7: G. Abowd (GB) R. Little (USA)
R. Kazman (GB) L. Nigay **(F)**
WG2.8: J. Launchbury (GB)
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J. Meadows (GB) J. Wedekind (D)
C. Parmentier (F) P. de Vries (NL)
WG5.7: M. Garetti (I)
H.L. Mulkens (CH)
G. Zulch (D)
WG5.9: J.F.W. Bell (ZA)
M. Pluektov (RUS)
0. Semenkov (RUS)
WG7.5: L. Esteva (MEX)
H. Ishikawa (J)
P. Sniady (PL)
WG8.2:
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M. Janson (USA) S. Little (AUS)
M. Jones (GB) P. Powell (GB)
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J. Kaasboll (N) E. Trauth (USA)
WG8.3: B. Andersson (S) E. Hallberg (S)
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G. Gable (SGP) M. Smith (GB)
F. Gallegos (USA) G. Spafford (USA)
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D. Longley (AUS)
WG12.2: I. Kononenko (SO)
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WG12.3: G. Brewka (D) B. Kuipers (USA)
L. Console **(I)** D. Lenat (USA)
M. Georgeff (AUS) M. McRobbie (USA)
R. Goebl (USA) J. Pearl (USA)
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WG13.1: P. Collings (AUS)
J. Gasen (USA)
S. Maass (D)

ADDRESS AND OTHER CHANGES

IFIP Secretariat:
e-mail: IFIP@uni2a.unige.ch
(effective 1 January 1994)

Member Society: British Computer Society
e-mail: bcswilk@cix.compulink.co.uk
(attn. Mr. A. Wilkes)
(a new GA rep. has not yet been appointed)

TC8 secretary: Dr. M. Hanani
tel: +972 7 280106, fax: +972 7 280113

WG9.2 chairman: Prof. J. Berleur
Institut d'Informatique
Fac. Univ. de Notre-Dame de la Paix
21, rue Grandgagnage
B-5000 NAMUR, Belgium
tel. +32 81 724976, fax: +32 81 724967
e-mail: jberleur@info.fundp.ac.be

WG9.4 vice-chairperson: Dr. M. Odedra-Straub
Kirschenweg 4
D-71229 LEONBERG, Germany
tel. +49 7152 904 915
e-mail: M.Odedra-Straub@gaia.comlink.apc.org

TC10 chairman: Prof. Dr. E. Höchst
P.O. Box: 83 09 55
postal code: D-81739 Munich

WG11.9 chairman: Prof. Dr. Ir. B. Fortrie
Postoffice Box 4066
Willemstad
CURACAO, Netherlands Antilles
tel: +599 9 652822, fax: +599 9 652828
e-mail: TC11@cipher.nl (Internet)

WG13.1 chairman: Prof. Dr. **Mg.** P. Gorny
postal code: D-26111 OLDENBURG, Germany

SG14 chairman: Prof. J. Gruska
e-mail: gruska@savba.sk

CALENDAR OF EVENTS

(continued from page 16)

Event	Date	Location	Sponsored by
Conf. on *Asia Pacific Information Technology in Training and Education — APITITE'94*	28 Jun-2 Jul 94	Brisbane, Australia	ACS, **IFIP** TC3, et al.
Fifth Conf. on *Women, Work and Computerization — WWC5'94*	2-5 Jul 94	**Manchester, U.K.**	**IFIP WG9.I et al.**
Work. Conf. on *Information Technologies in Educational Management*	4-8 Jul 94	**Jerusalem, Israel**	**IFIP WG3.4, IPA, et al.**
Work. Conf. on *Interactive Multimedia in University Education: Designation for Changes in Teaching and Learning*	6-8 Jul 94	**Melbourne, Australia**	**IFIP WG3.2**
***IMACS** World Congress '94*	11-15 Jul 94	**Atlanta, GA, U.S.A.**	**IMACS**
Work. Conf. on *Information Technology and New Emergent Forms of Organizations*	**13-15 Aug 94**	**Ann** Arbor, **MI,** U.S.A.	**IFIP WG8.2**
Eighth Work. Conf. on *Database Security*	23-26 Aug 94	Hildesheim, Germany	**IFIP WG11.3**
Intl. Work. Conf. on *Parallel Architectures and Compilation Techniques — PACT'94*	24-26 Aug 94	Montreal, Canada	**IFIP WG10.3, ACM, SIGARCH**
IFIP Congress '94 — Thirteenth World Computer Congress	**28 Aug-2 Sep 94**	**Hamburg, Germany**	**IFIP**
Eighth Intl. Conf. on *Computer in Automation of Shipyard Operations and Ship Design — ICCAS'94*	5-9 Sep 94	Bremen, Germany	**IFIP WG5.6 et al.**
Symp. on *Robot Control — SYROCO* '94	**19-21 Sep 94**	**Capri, Italy**	**IFAC/ IFIP** WG7.6, **IMACS**
Work. Conf. on *Comparative Review of Information Systems Methodologies Revisited — CRIS'94*	**26-28** Sep 94	Maastricht, Netherlands	**IFIP WG8.I**
Work. Conf. on *Expert Systems in Computer Integrated Manufacturing*	*?* Sep 94	**Kiev, Ukraine**	**IFIP WG5.3**
Third Intl. Workshop *on Hardware/Software Codesign — Codes/CASHE '94*	*?* Sep 94	**Grenoble, France**	**IFIP WG10.5 WG10.2**
Second Symposium on *Artificial Intelligence in Real Time Control*	3-5 Oct 94	**Valencia,** Spain	IFAC **IFIP WG5.4**
Conf. on *South East Asia Communications '94 — SEACOMM '94*	4-6 Oct 94	**Kuala Lumpur, Malasia**	**IFIP TC6**
Work. Conf. *on Integrating Information on Technology into Education*	*?* Oct 94	**Barcelona, Spain**	**IFIP WG3.1**
Workshop on *Large Scale Stochastic Programs: Applications and Solutions*	*?* Oct 94	Jalta, Russia	**IFIP** WG7.7
Fourteenth Intl. Conf. on *Information Systems — ICIS '94*	15-17 Dec 94	Vancouver, Canada	**ICIS IFIP TC8**
Work. Conf. on *Change-Point Detection*	*?* 94	Vilnius, Lithuania	**IFIP WG7.I**
Work. Conf. on *Approximations and Applications in Stochastic Programming*	*?* 94	Tallinn, Estonia	**IFIP WG7.7 IIASA**
Workshop on *Stochastic Methods and Global Optimization*	12-15 Jun 95	Vilnius, Lithuania	**IFIP WG7.7**
Seventeenth Conf. on *System Modelling and Optimization*	10-14 Jul 95	Prague, Czech Republic	**IFIP TC7**
World Conf. on *Computers in Education — WCCE '95*	23-28 Jul 95	**Birmingham, U.K.**	**IFIP TC3 BCS**
Eighth IMIA World Congress on *Medical Informatics — MEDINFO'95*	**23-28** Jul 95	**Vancouver, B.C., Canada**	**IMIA**
Fifth **Intl. Conf.** on *Computer Applications in Production and Engineering — **CAPE'95***	22-24 Aug 95	**Beijing, China**	**IFIP TC5 et al.**
Intl. Conf. on *Computer Hardware Description Languages and Their Applications — **CHDL'95***	*?* Aug 95	**Tokyo, Japan**	**IFIP WG10.2**
IFIP Congress '96 — Fourteenth World Computer Congress	**2-6 Sep 96**	**Canberra, Australia**	**IFIP**
Thirteenth ***IFAC World Congress '96***	***?*** 96	San Francisco, CA, U.S.A.	IFAC
IFIP Congress '98 — Fifteenth World Computer Congress	**23-29 Aug 98**	**Vienna, Austria, and Budapest, Hungary**	**IFIP**

Please see page 13 for schedule of **IFIP** administrative meetings.
The **IFIP** Secretariat can furnish details of most of the events listed.

CALENDAR OF EVENTS

Event	Date	Location	Sponsored by
Thirteenth Intl. Conf. on *Information Systems — ICIS '93*	5-8 Dec 93	Orlando, FL, U.S.A.	ICIS, SIM / IFIP TC8
First Asia Pacific Conf. on *Hardware Description Languages, Standards and Applications — APCHDLSA'93*	6-8 Dec 93	Brisbane, Queensland, Australia	IEEE, IFIP WG10.2/10.5
Work. Conf. on *Numerical Analysis and Optimization*	15-17 Dec 93	Rabat, Morocco	IFIP WG7.2
Work. Conf. on *Dependable Computing for Critical Applications — DCCA-4*	4-6 Jan 94	San Diego, CA, U.S.A.	IFIP WG10.4
Seminar on *Current Topics in Programming Methodology*	10-21 Jan 94	Macau	IFIP WG2.3 UNU/IIST
Intl. Workshop on *Stochastic Programming: Algorithms and Models*	18-20 Jan 94	Lillehammer, Norway	IFIP WG 7.7/ MPS NCS
Workshop on *Design of Multichip Modules*	2-4 Feb 94	Bad Toelz, Germany	IFIP WG10.5 SIG of GI/ITG/GME
Work. Conf. on *The Impact of Informatics on Society: Key Issues for Developing Countries*	21-23 Feb 94	Havana, Cuba	IFIP WG 9.4/ INSAC
Second Intl. Conf. on *Broadband Communication '94*	2-4 Mar 94	Pans, France	IFIP TC6
Work. Conf. on *The Impact of Information Technology from Practice to Curriculum*	15-18 Mar 94	Neve-Ilan, Israel	IFIP WG3.2, WG9.5, IPA
Conf. on *Evaluation of Production Management Methods*	21-24 Mar 94	Porto Alegre/Gramado, Brazil	IFIP WG5.7
Intl. Conf. on *Information Networks and Data Communications — INDC'94*	*18-21* Apr 94	Funchal (Madeira Isl.), Portugal	IFIP TC6, API, ICCC
Intl. Conf. on *Applications in Parallel and Distributed Computing* I.	18-22 Apr 94	Caracas, Venezuela	IFIP WG10.3
Seventh Intl. Conf. on *Modelling Techniques and Tools for Computer Performance Evaluation*	4-6 May 94	Vienna, Austria	Univ. of Vienna, IFIP TC6, WG7.3, 10.3, 10.4, et al.
Work. Conf. on *Information Systems Integration — TC8AUS*	8-12 May 94	Gold Coast, Queensland, Australia	IFIP TC8 and WGs, ACS
Seventh Intl. Workshop on *High-Level Synthesis — HLSW'94*	17-20 May 94	Niagara-on-the-Lake, Ontario, Canada	ACM/SIGDA, IEEE/DATC IFIP WG 10.5
Tenth Intl. Conf. on *Information Security* — IFIP/SEC'94	23-27 May 94	Curacao, Netherlands Antilles	IFIP TC11
Intl. Conf. on *Feature Modeling and Recognition in Advanced CAD/CAM Systems*	24-26 May 94	Valenciennes, France	IFIP TC5 & WG5.3, AFCET, CNRS
Work. Conf. on *Optimization-Based Computer-Aided Modelling and Design*	24-26 May 94	Prague, Czech Republic	IFIP WG7.6 et al.
Work. Conf. on *Upper Layer Protocols, Architectures, and Applications — ULPAA'94*	1-3 Jun 94	Barcelona, Spain	IFIP WG6.5
Work. Conf. on *Programming Concepts, Methods and Calculi — PROCOMET'94*	6-10 Jun 94	San Miniato, Italy	IFIP TC2 WG2.1-3
Workshop on *Benchmarking — Theory and Practice*	16-18 Jun 94	Trondheim, Norway	IFIP WG5.7
Workshop on *Intelligent Manufacturing Systems*	22-24 Jun 94	Vienna, Austria	IFAC IFIP WG5.3 IFORS et al
Nineteenth Workshop on *Real Time Programming — WRTP'94*	22-24 Jun 94	Isle of Reichenau, Germany	IFAC IFIP WG5.4
Work. Conf. on *Promoting A New Partnership: Children, Teachers, and Technology*	27 Jun-1 Jul 94	Philadelphia, PA, U.S.A.	IFIP TC3 WG3.5
Fifth Work. Conf. on *High Performance Networking — HPN'94*	27 Jun-1 Jul 94	Grenoble, France	IFIP WG6.4
Second Work. Conf. on *Reconstituting OIKOS: Home-Oriented Informatics, Telematics and Automatics — HOIT-2*	27 Jun-1 Jul 94	Copenhagen, Denmark	IFIP WG9.3

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IFIP Congress '94 — 13th World Computer Congress	28 Aug-2 Sep 94	Hamburg, Germany	IFIP
IFIP Congress '96 — 14th World Computer Congress	2-6 Sep 96	Canberra, Australia	IFIP
IFIP Congress '98 — 15th World Computer Congress	23-29 Aug 98	Vienna, Austria, and Budapest, Hungary	IFIP

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